



**INSET MAP 14: SUMMARY OF SHALLOW FAULT DEFORMATION DATA AND QUATERNARY FAULT TRACES IN SEATTLE/TACOMA REGION, DRAPED OVER RESIDUAL AEROMAGNETIC ANOMALIES**

**EXPLANATION**

**Paleoseismic trench** (see text and Table 2 for references) ☆

**Paleoseismic coastal**  
Sherrod 1998, 2001:

**Uplifted site**

**Subsided site**

**LiDAR-identified fault scarp**

**Locations of sharp gravity contrasts, estimated from gravity anomalies** ◆

**Aeromagnetic lineament along South Whidbey Island Fault Zone** (Sherrod and others, 2008) ○○○○○○○○○○○

**Contour lines denote thickness of unconsolidated Puget Sound basin deposits** (Jones, 1996)

**Deformation interpreted on seismic lines to result from motion on Quaternary fault systems**

- ◆ Johnson and others, 1999
- ◆ Pratt and others, 1997
- ◆ Johnson and others, 2004c

**Earthquakes 1970-present, Pacific Northwest Seismic Network (PNSN)**

Depth 0-35 km ○ ○ ○

Magnitude 5.0 4.0 3.0

**QUATERNARY FAULT TRACES**

Holocene-active faults documented by paleoseismic studies

Quaternary-active faults (Holocene activity unknown or uncertain)

**Sources for fault trace locations (also see Table 1):**

- <sup>1</sup>USGS Quaternary Fault Database
- <sup>2</sup>Brocher and others, 2001
- <sup>3</sup>Johnson and others, 2004c
- <sup>4</sup>Sherrod, and others, 2008
- <sup>5</sup>Kelsey and others, 2004

